



CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005



Job No.: CTCE/BBMP/W.No.13/KRIDL/Fencing/2015-16

20.01.2016

TEST REPORT ON CHAIN LINK FENCING WIRE (8th Gauge)

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, Bangalore.
Name of work : Improvements and development works and providing children's equipments to Mallasandra Gutte in Ward No.13, BBMP, Bangalore.
Reference : No.EE/DD/WO/ /2015-16
Samples ID : Samples Supplied By Agency



Sl.No	Description	Result
1	Diameter	4.02 mm
2	Internal Spacing	50 mm X 50 mm
3	Weight / Meter (1m x 1m)	4.180 Kg

Note:

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AG-Devi
Kc
20/1

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Job No.: CTCE/BBMP/W.No.13/KRIDL/MS Angle/2015-16

20.01.2016

TEST REPORT ON STRUCTURAL STEEL

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, Bangalore.
Name of work : Improvements and development works and providing children's equipments to Mallasandra Gutte in Ward No.13, BBMP, Bangalore.
Reference : No.EE/DD/WO/ /2015-16
Samples ID : Samples Supplied By Agency
Specimen Size : ISA-65X65X6mm (1m Length)



Sl.No	Description	Result
1	Thickness	6.02 mm
2	Width	65.0 mm
3	Weight / Meter	5.86 Kg

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Job No.: CTCE/BBMP/W.No.13/KRIDL/MS Pipe/2015-16

20.01.2016

TEST REPORT ON M.S PIPE (38mm Dia)

Client : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency : Technical Manager (West), KRIDL, Bangalore.
Name of work : Improvements and development works and providing children's equipments to Mallasandra Gutte in Ward No.13, BBMP, Bangalore.
Reference : No.EE/DD/WO/ /2015-16
Specimen Size : M.S Pipe 38mm Dia



PHYSICAL TEST

Sl.No	Description	Result
1	Thickness	2.02 mm
2	Inner Diameter	38.08 mm
3	Outer Diameter	42.14 mm
4	Weight / Meter	1.890 kg

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Job No.: CTCE/BBMP/W.No.13/KRIDL/Paver Blocks/2015-16

05.02.2016

TEST REPORT

Client	:	Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Agency	:	Technical Manager (West), KRIDL, Bangalore.
Name of the work	:	Improvements and development works and providing children's equipments to Mallasandra Gutte in Ward No.13, BBMP, Bangalore.
Reference	:	No.EE/DD/WO/ /2015-16
Type of the test	:	Physical tests on Paver Blocks
Samples supplied by	:	Agency



The results of the tests conducted on the Paver Blocks sample are as follows:

1. THICKNESS:

Sl. No	Identification	Thickness, mm	Average thickness, mm
1	01	60.05	60.07
2	02	60.10	

2. COMPRESSIVE STRENGTH:

Sl. No	Identification	Load in Kilo-Newton	Cross sectional area, mm ²	Compressive strength N/mm ²
1	01	686.5	24,200	28.36
2	02	687.4	24,200	28.40

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-01/1048g/Kerb stone/2015-16

05.02.2016

TEST REPORT ON CONCRETE CORE (KERB STONE)

* Name of Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
* Name of Agency : Technical Manager (West), KRIDL, Bangalore.
* Name of work : Improvements and development works and providing children's equipments to Mallasandra Gutte in Ward No.13, BBMP, Bangalore.
Reference : No.EE/DD/WO/ /2015-16
Technical Reference : IS:516-1959 (Reaffirmed 2008), SP-24:1983.
Sample ID : Kerb Stone
Sample Received on : 31.01.2016
Date of Testing : 05.02.2016



Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m ³)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm ²)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm ²)	Equivalent Cube Compressive Strength (N/mm ²)
1	50.00	82.00	0.403	2503.00	1.64	0.960	25.30	12.89	13.92	13.36	16.70
2	50.00	83.00	0.412	2528.07	1.66	0.965	26.30	13.39	14.47	13.96	17.45
3	50.00	84.00	0.420	2546.48	1.68	0.970	26.80	13.65	14.74	14.30	17.87

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-01/1048g/CUBE/2015-16

15.02.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : Technical Manager (West), KRIDL, Bangalore.

* Name of the work : Improvements and development works and providing children's equipments to Mallasandra Gutte in Ward No.13, BBMP, Bangalore.

* Reference : No.EE/DD/WO/ /2015-16

Sample ID : Plinth Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 15.02.2016



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	18.01.2016	15.02.2016	8.189	475.5	21.13
2	18.01.2016	15.02.2016	8.235	495.6	22.03
3	18.01.2016	15.02.2016	8.325	512.3	22.77

* Information is furnished by the Customer/Representative

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Job No.: CTCE/BBMP/W.No.13/KRIDL/CSR-01/1048g/CUBE/2015-16

16.02.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : Technical Manager (West), KRIDL, Bangalore.

* Name of the work : Improvements and development works and providing children's equipments to Mallasandra Gutte in Ward No.13, BBMP, Bangalore.

* Reference : No.EE/DD/WO/ /2015-16

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 16.02.2016



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	19.01.2016	16.02.2016	8.110	482.9	21.46
2	19.01.2016	16.02.2016	8.289	498.5	22.16
3	19.01.2016	16.02.2016	8.335	515.5	22.91

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17.02.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : Technical Manager (West), KRIDL, Bangalore.

* Name of the work : Improvements and development works and providing children's equipments to Mallasandra Gutte in Ward No.13, BBMP, Bangalore.

* Reference : No.EE/DD/WO/ /2015-16

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 17.02.2016



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	20.01.2016	17.02.2016	8.189	478.3	21.26
2	20.01.2016	17.02.2016	8.269	510.3	22.68
3	20.01.2016	17.02.2016	8.374	526.5	23.40

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18.02.2016

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer : Asst. Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

* Agency : Technical Manager (West), KRIDL, Bangalore.

* Name of the work : Improvements and development works and providing children's equipments to Mallasandra Gutte in Ward No.13, BBMP, Bangalore.

* Reference : No.EE/DD/WO/ /2015-16

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 18.02.2016



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	21.01.2016	18.02.2016	8.097	476.6	21.18
2	21.01.2016	18.02.2016	8.158	493.5	21.93
3	21.01.2016	18.02.2016	8.288	510.9	22.71

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19.02.2016

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* Reference : No.EE/DD/WO/ /2015-16

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 19.02.2016



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	22.01.2016	19.02.2016	8.129	478.9	21.28
2	22.01.2016	19.02.2016	8.298	516.3	22.95
3	22.01.2016	19.02.2016	8.310	522.3	23.21

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20.02.2016

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* Agency : Technical Manager (West), KRIDL, Bangalore.

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* Reference : No.EE/DD/WO/ /2015-16

Sample ID : Cement Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm²

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M₂₀

Compressive Strength as on : 28th day

Sample Received on : 20.02.2016



Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm ²)
1	23.01.2016	20.02.2016	8.110	475.9	21.15
2	23.01.2016	20.02.2016	8.285	489.6	21.76
3	23.01.2016	20.02.2016	8.356	512.3	22.77

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